

SCIENCE **First Grade**

LIFE SCIENCE STANDARDS

1.0 Cell Structure and Function

The student will investigate the structure and function of plant and animal cells.

Key	Reporting Category		PLT ACTIVITY
I		Use magnifiers to observe smaller parts of larger objects.	65 Bursting Buds (<i>enrichment – use magnifiers to examine twigs & buds</i>) p. 277
D		Observe and describe what happens when an object loses a part.	N/A

2.0 Interactions Between Living Things and Their Environment

The student will investigate how living things interact with one another and with nonliving elements of their environment.

D		Use the senses to explore the environment.	2 Get In Touch With Trees p. 20 3 Peppermint Beetle p. 23 4 Sounds Around (part B) p. 26 22 Trees as Habitats p. 102 46 Schoolyard Safari p. 197
I		Collect information about organisms that occupy specific environments.	22 Trees as Habitats p. 102 24 Nature's Recyclers p. 108 46 Schoolyard Safari p. 197 47 Are Vacant Lots... p. 200
I		Provide examples of pollutants in a specific environment.	36 Pollution Search (var.) p. 153

3.0 Food Production and Energy for Life

The student will study the basic parts of plants, investigate how plants produce food, and discover that plants and animals use food to sustain life.

I		Recognize the basic needs of living things (e.g., food, water, sunlight, and air).	24 Nature's Recyclers p. 108 27 Every Tree for Itself p. 117 41 How Plants Grow p. 179 63 Tree Factory (variation) p. 269
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5.0 Diversity and Adaptation Among Living Things

The student will understand that living things have characteristics that enable them to survive in their environment.

I		Observe and note differences among plants and animals of the same kind.	25 Birds and Worms p. 111 43 Have Seeds, Will Travel p. 185 64 Looking at Leaves p. 273
D		Recognize the environment in which an organism is typically found.	6 Picture This! p. 34 24 Nature's Recyclers p. 108

EARTH SCIENCE STANDARDS

7.0 Earth and Its Place in the Universe

The student will investigate the structure of the universe.

D		Distinguish between objects that appear in the day and nighttime sky.	N/A
I		Recognize that the moon is the closest object in the sky.	N/A
I		Recognize that there are tools for observing objects in the day and nighttime sky.	N/A
D		Observe and illustrate the position of the sun at different times of the day.	N/A
I		Recognize that shadows change length and position during the course of a day.	N/A

KEY

I = Introduced D = Developing A = State Assessed M = Mastered

REPORTING CATEGORY

SF = Structure & Function of Organisms ME = Motion & Forces, Forms of Energy E = Ecology M = Matter
LC = Life Cycles & Biological Change ER = Earth Features & Resources SC = Space, Weather, & Climate

Note: "A" indicates the state curriculum (CRT) assessment only.
All the skills ("I"... "D"... "A"... "M") are addressed in the classroom assessment.

8.0 Atmospheric Cycles

The student will investigate the relationships among atmospheric conditions, weather, and climate.

D	Recognize that weather conditions are constantly changing.	N/A
I	Describe weather patterns associated with the seasons.	N/A
D	Associate temperature, precipitation, and wind conditions with various types of weather.	N/A
I	Identify the appropriate tool for measuring temperature, precipitation, and wind speed/direction.	N/A

9.0 Earth Features

The student will understand that the earth has many geological features that are constantly changing.

I	Distinguish between land and water environments.	N/A
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10.0 Earth Resources

The student will investigate the properties, uses, and conservation of earth's resources.

D	Use observable properties to distinguish among a variety of earth materials.	70 Soil Stories p. 297
D	Identify ways that earth resources benefit man.	13 We All Need Trees p. 65 30 Three Cheers for Trees! p. 130 32 A Forest of Many Uses p. 135 51 Make Your Own Paper p. 224

PHYSICAL SCIENCE STANDARDS

11.0 Forces and Motion

The student will investigate the effects of force on the movement of objects.

D	Observe and describe how the movement of an object can be changed (e.g., push/pull, fast/slow).	N/A
I	Recognize objects that are balanced.	N/A

12.0 Structure and Properties of Matter

The student will investigate the characteristic properties of matter.

D	Compare objects according to weight, length, and size.	2 Get In Touch with Trees p. 20 6 Picture This! p. 34
I	Distinguish between solids and liquids.	N/A

13.0 Interactions of Matter

The student will investigate the interactions of matter.

I	Observe and describe changes that can occur when two materials interact.	N/A
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14.0 Energy

The student will investigate energy and its uses.

D	Describe the effect of the sun's energy on different materials.	N/A
D	Classify sounds according to their basic characteristics (e.g., loud/soft, natural/man/made).	4 Sounds Around p. 26

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